

SEQUENCE LISTING

<110> Moyer, James W.
Parks, Elizabeth

<120> IDENTIFICATION OF POINSETTIA CULTIVARS

<130> 5051.445

<150> US 60/220,854

<151> 2000-07-26

<160> 54

<170> PatentIn version 3.1

<210> 1

<211> 372

<212> DNA

<213> Euphorbia pulcherrima

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<222> (24)..(24)

<223> "n" represents any nucleotide.

<220>

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<222> (195)..(195)

<223> "n" represents any nucleotide.

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ataacttctg gcagccatgt actcagcttc agctgtactt agagccatag aagtttattt 120
cttgttgcac catgtgtcta gacaattacc aaggaaatga catcctctag tggtgtttt 180
cctttctaac ttgtntcttc cataatttagc atttgttatg gccctcagag tgaaatttcc 240
atttcttgaa taccataaac ctgcatcaat agttccatgc aaataccata acaacagcta 300
agtgagattc tctggggta gcttgatatc taccataata acataacaaca tattgaattt 360
caggcctact ag 372

<210> 2

<211> 198

<212> DNA

<213> Euphorbia pulcherrima

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<222> (35)..(35)

<223> "n" represents any nucleotide.

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<222> (45)..(45)

<223> "n" represents any nucleotide.

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<222> (48)..(48)

<223> "n" represents any nucleotide.

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<222> (154)..(154)

<223> "n" represents any nucleotide.

<220>

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 <222> (160)..(160)
 <223> "n" represents any nucleotide.

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 tagagctttg ttgcaggatt tgactgagag gaattgtgtc atggagagaa gttcgagtgc 120
 gagcccgatt gtgtttagg agaagaaatt gganagaagn cgttgggggc aagtatggag 180
 ttgagaatcc cacatcta 198

<210> 3
 <211> 182
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 3
 agttagaaaa gcaaattca gtgcaggta tactattgca aatgttagag ctttgtcga 60
 ggatttgaca gagaggaatt gtatcatgga gagaagttcg agtgcgagcc cgattgtgtt 120
 gtaggagaag aaatttgaag aagacgttgg gggcaagtgt ggagttgaga atcccacatg 180
 ta 182

<210> 4
 <211> 161
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 4
 tgcttccaag gtgttctcc ttttgcata gaaattttac caactatgga aaactgacat 60
 gatttcagcc tctttcata aagattttga ggaatctgaa ttgctttgta tctccactt 120
 gcgtcaatga tttgtgagtt cagggttggc gcagatatct a 161

<210> 5
 <211> 103
 <212> DNA
 <213> Euphorbia pulcherrima

<400> 5
cgacgatggc aatgatgaca attcttgcc ggaaccagaa atgataattt atactcccta 60
tatagggaga atgttggaaa ttagattttg aagttttat tta 103

<210> 6

<211> 371

<212> DNA

<213> Euphorbia pulcherrima

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<221> misc_feature

<222> (81)..(81)

<223> "n" represents any nucleotide.

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tgcaaactaa tttttaggta ntggttgcaa attattttgc aaaaataatt accaagctat 120
ctcttccaag tatatatttc tctagcatct cccatgcata agaactgttg gagtgtatat 180
gtatgagaaa gaaatgtata ataccaacct cttccatttgc ctttggttcta ctgctttcca 240
agtgcgttgcgtt ttaggtgtat tacaaggccc tatagtagcc tgcaagtattt catggacta 300
acaaaactcag tatctaagcc cgggggtgaaa agataactcac aatctcacat ttccgatcaa 360
ctccccatata c 371

<210> 7

<211> 247

<212> DNA

<213> Euphorbia pulcherrima

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<222> (22)..(22)

<223> "n" represents any nucleotide.

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<222> (151)..(151)
<223> "n" represents any nucleotide.

<220>
<221> misc_feature
<222> (175)..(175)
<223> "n" represents any nucleotide.

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gaaaatatgt gctgaattta tnctgtaaag tagttcgat gcaaccactg tttagcttat 60
acttaacctt ctgttcatca ccatcaatcc tcagcaaaac accctcattc ttcatactta 120
gatgttgttc gaagaatat gggtaacag ngatttctt gccctggacc ttggntgaa 180
gagcatcaaa cttggcgtga acactaagaa tctcatagaa ctcccttgac taagttagga 240
tatgtgg 247

<210> 8
<211> 221
<212> DNA
<213> Euphorbia pulcherrima

<400> 8
agctcttcat tgttcatca tagttatcg gtttatcatc ctctatgata tatagttccc 60
tacatcagtg atgatgcaac catatctttt aggaccgtta tgaatatgac ctgatcttg 120
cattgattgt gttcaacag gttgttcatt ggatcaaacc ttcttgta tctagaatgg 180
ggtaactag ttgattatct gtttatatt cttgaagctc c 221

<210> 9
<211> 176
<212> DNA
<213> Euphorbia pulcherrima

<400> 9
tgcattccat gttcaaaag ccgagtttct tcgcctcatc gagttttat tcgcaaagt 60
gatggtttag acagggtttt gaccagcagc ctggagttgg gagattgttgcctcatcag 120

aaatttagttt tcatggagtt gggagatttg aaggtaattc aaggaagttt tctgca 176

<210> 10

<211> 73

<212> DNA

<213> *Euphorbia pulcherrima*

<220>

<221> misc_feature

<222> (54)..(54)

<223> "n" represents any nucleotide.

<400> 10

ccggataaaaa gcactacaat caggttagatg actcgggtcg gatacgtagt gcantactga 60

gtcagactaa cga

73

<210> 11

<211> 75

<212> DNA

<213> *Euphorbia pulcherrima*

<400> 11

gtttatcttc aagtctaaca agacccagtt tttcagattc ctttcctcaa tttctcgttc 60

agttataaaaa gctaa

75

<210> 12

<211> 64

<212> DNA

<213> *Euphorbia pulcherrima*

<220>

<221> misc_feature

<222> (52)..(52)

<223> "n" represents any nucleotide.

<400> 12
gaatgcctat tacatcgaa aacaaaaaaaaa caaagataaa tgcttagagac antataatca 60
tccc 64

<210> 13
<211> 59
<212> DNA
<213> Euphorbia pulcherrima

<400> 13
gtctttctag ttttactgat ttctgttgta cttctattag atatatattg tatatctga 59

<210> 14
<211> 49
<212> DNA
<213> Euphorbia pulcherrima

<400> 14
ttgaaggcag gaaaatatac cctattctga aaggatttac aatctgcgg 49

<210> 15
<211> 216
<212> DNA
<213> Euphorbia pulcherrima

<400> 15
acttctctcc ccacacaatg tgtagtgcag ctatgccga tgacagttag aagaccagaa 60
tcacatagag agcgatcgta tgaaaaggta ttgaatttagg gatttgatga aaggtaaga 120
tagaaaaggga gttgggttta gcgagttgtt tctcctgccc tcacaataat acttttatca 180
atttttcagt aacaatttgtt ccatgtactt ttggac 216

<210> 16
<211> 120
<212> DNA
<213> Euphorbia pulcherrima

<400> 16

tgtgcttttggat caaataagga aacatggcct tagttaagtg tagtcatatc 60
ttttggctc atgaacccta agtcccctat agtttgaaca agtttgta ggatttgtat 120

<210> 17

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 17
agaaccta at ctaagtagaa tcttataaaa gaaatgaaaa ctttgagaga tatTTTtagt 60
atgaaaatag aaaataaatac ataaagtaaa caagcacaaa taccagctgg atTTTctaa 120

<210> 18

<211> 118

<212> DNA

<213> Euphorbia pulcherrima

<400> 18
gaatgtgctc ttggcccttggat ctaat aaggaaacat ggccttggta tagtaataat 60
acttttgct cataaccctg agtccgctat ggctgaacaa ggttgcag gatggat 118

<210> 19

<211> 117

<212> DNA

<213> Euphorbia pulcherrima

<400> 19
agaacctaaa tcttaggtgc ctcttataa aagaaaatga aaactttgag agatatttt 60
agtatgaaaa tagaaaataa aatcataagt aacagcacaa ttaccagctg gactctc 117

<210> 20

<211> 109

<212> DNA

<213> Euphorbia pulcherrima

<400> 20
gaatgtgctc ttggcccttggat ctaat aaggaaacat ggccttggta tagtaataat 60

tacttttggc tcatgaactc tagtcctatg ctacaggtgt cagatgata 109

<210> 21
<211> 114
<212> DNA
<213> Euphorbia pulcherrima

<400> 21
gatgtgctct tggtcctgga tctaattgaaa catgccttgt attagtaaaa atacctttt 60
ggctatgaac cctgagtcctt ctaggcattt aaaaaggttt tgccaggattt gtat 114

<210> 22
<211> 119
<212> DNA
<213> Euphorbia pulcherrima

<400> 22
tttctctctg attacattac tatgtaaaga cctaaatgaa tgagtttct tcgcaaggac 60
caaatcgaga tattttact aatttttctt cttgaaatat tttatctaga tgaaatttt 119

<210> 23
<211> 116
<212> DNA
<213> Euphorbia pulcherrima

<400> 23
gctttcttac attcttgggg acaagaatgc tttgaagggg agggtattgt caggaggaag 60
taatataatc tgattgttat ttatgtttt tgctttgggt aaataagttt actatg 116

<210> 24
<211> 336
<212> DNA
<213> Euphorbia pulcherrima

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<221> misc_feature

<222> (333)..(333)

<223> "n" represents any nucleotide.

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ctccaaggct tcattgatgc agattatgg agagatactc ttgagagaaa gagtacatca 60
gagggttgtca cttctaggg aatttgcttag tatcttggta cagcaagaag caaacttcag 120
ttgccttatac tactatagaa gtagaatata tggcagctag aagttgtgt a gctcaacttc 180
tttggatcaa gcaacaacta gaagattatg gagtctaattc cgggtgtgtg gatgtaatgt 240
gtgattacaa aagtgccatt gatgtgtcaa acaatccagt attccatagg aggataaaac 300
atgtcaacat aaggcatcgt gaagagaaga aanttg 336

<210> 25

<211> 232

<212> DNA

<213> Euphorbia pulcherrima

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<221> misc_feature

<222> (6)..(6)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (26)..(26)

<223> "n" represents any nucleotide.

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caggnatga actttgattt caccancata gattttgaat ctcagtcttc aggaagcttt 60
ttcagttctt gagcacatgt tctgaaaaaa tatcaaattct ctacattgtt ttcaaggta 120
acaaatgacc ggtaaggctc gggttggctc agaccggca catcaatttg gggacaaatt 180
tgaatccatt ttatcctact tttttgtatt ggcagtaagg attaggattc tc 232

<210> 26

<211> 167

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc_feature

<222> (73)..(73)

<223> "n" represents any nucleotide.

<400> 26

ctctcctata ttttagggtt tagcttgta tcataagctc ttctgctctc taccctctca	60
aaccacccca tgntatatat ggtattcatc actcgaatat ttatgtaaat catccatctc	120
attcagggtt tgattcgggc tgatcatctt ccggtttctc tagctaa	167

<210> 27

<211> 102

<212> DNA

<213> Euphorbia pulcherrima

<400> 27

tttgcaggag tactgtccat gtaaatttga gacttcgcac tatcattgca agcaatagca	60
atagaagaaa catcatttg cagcttacta atacacccac tc	102

<210> 28

<211> 308

<212> DNA

<213> Euphorbia pulcherrima

<400> 28

gcctagaaag gttttctagt caacatactc acgtagctca cttttaccct aactttgcc	60
tagaacgtcc ttttgaatt ttcatgttag cgggctattt tgcaccccaa cttttgcctg	120
aatggtttgt agaataccaa atagcgggat atgccctaattttgcctaag cagtagagga	180
ccactcatcg ggtgatttat ttgtattttttgtgc cgctttctg gatttggattc	240
tttttagatta gatatgataa tgcttcaatc gatcctgatt gatagggttt gtgaatttgtt	300
acgcagcc	308

<210> 29

<211> 137
<212> DNA
<213> Euphorbia pulcherrima

<400> 29
aagaccaagt caggagcata cctaagaaga aggaatagct gacctagccg atcctctggt 60
acctcaacta tggatggacc cccgtgtacc tctcagtcct cctcctcgta atcatatcat 120
catcctcgtt gttgctc 137

<210> 30
<211> 135
<212> DNA
<213> Euphorbia pulcherrima

<400> 30
ttatcataat caatgtcaat aaaaaaaaaaa aggcaataaa taaaagataa ataattctga 60
tagactaaaa agagcaaggc tgatgcaaaa gtcagaataa gtctgctgga ttgaaatcga 120
aaggtatcta ggcaa 135

<210> 31
<211> 139
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (128)..(128)
<223> "n" represents any nucleotide.

<400> 31
ggccctttct cagccatgat atctaaatat acgagtcttg tgtgtacgcc attgcacatctc 60
tagcccttct ccagggggcg ttctcatctt gtccatgcca taatacaatt tcataatattc 120
tctctccnag taagcaacc 139

<210> 32

<211> 281
<212> DNA
<213> Euphorbia pulcherrima

<400> 32
aacctcatca atcaggatca gatgaagcat tatcatatct aatcgaaaag aatcaaatct 60
agaaaagcgg cacataaaag tatataaaaa aatcacccga cgagtagtct tctactgctc 120
aggcaaaaat taggttgtat cctgttgtt ggtaatctgt aaaccattca ggaaaatgtt 180
agggtgcaag aataacccgc tagactgaaa atctgaaaag gatggtctag gcaaaattta 240
gggtaaaagt gagctacaat agtgtgttgg cttgaaaact t 281

<210> 33
<211> 211
<212> DNA
<213> Euphorbia pulcherrima

<400> 33
gattactga taatgttgac aatggcttga gggcagtatc ttgcaactcc ctgc当地 60
gttttcacta ttccggcatt tatgttgaat aaatcgcccc tagtcattcc tggcttc当地 120
gaaaccccaag caggaatttat cacaagatcc attccctgtaa gagcatcgtc tagttgctgc 180
tggcccaaga aaccacgcac ctgaaaatca t 211

<210> 34
<211> 320
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (127)..(127)
<223> "n" represents any nucleotide.

<220>
<221> misc_feature
<222> (136)..(136)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (142)..(142)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (148)..(148)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (192)..(192)

<223> "n" represents any nucleotide.

<220>

<221> misc_feature

<222> (213)..(213)

<223> "n" represents any nucleotide.

<400> 34

ttagctcgat ctccatgatc acaaaaactag ttatcacacc caccattac attgttgtt 60

tgcaacaaag tcaactgtac tagagattct cgtcccgaag tgccctcaag atgggatcgt 120

tttcttnatc tatgtngtag tngtcgtngt cgtcatcatc caggtcatcc agtattgatt 180

ggttgatcct tntgcgagac tttcttctat gcnttcttgg gctccaaacg aggttcagct 240

tgctgtactc ccatatcacc cactttgaac ctgcagagta gcataacgaa caagaaaaatg 300

aatgatagta gaataaaat 320

<210> 35

<211> 272

<212> DNA

<213> Euphorbia pulcherrima

<400> 35
tatggtattt cttttctggg tgtaattgat ttgcaacttg agtcaaacag gttctatcaa 60
ctgatttttc tagtttcgg cgcttactgc aaccctggaa aggatgtca ctgtttttc 120
cttcgttttc caggtcagca atacgacgag taatttcctc ggtatcatat atggattcca 180
gcttgtaatc ttttatgcat tgaataacgg ctttacgagc agctagttct ctctccctgg 240
ccttctcctg cagatgaaat caggagttat at 272

<210> 36

<211> 195

<212> DNA

<213> Euphorbia pulcherrima

<400> 36
cagatttattt gactataatt agtttggctt ctatggttgc tgcaactaaat gatcatcgaa 60
acagccaaatc ggttcatggg tttgtcatga gaaaaggctg gttcatggaa tatattgtca 120
ttggaaatgc aactgtggac atgtatgcta aaattggagc cacagatacg gcccgtgcag 180
tatttggaaag cctac 195

<210> 37

<211> 171

<212> DNA

<213> Euphorbia pulcherrima

<400> 37
tttcaaaagt tgaaaagaat atgtcataag ctttacacta gtaaatggaa ctatagtccg 60
tgccccctac atcaaaagat caatgataaa gaagaacaaa acactccaaa gagcaattct 120
tctcaaaagg tgctgagctg gaatcccatt ctaatcgtgg catccctccc c 171

<210> 38

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 38

aaatgtagca aagaacatta tcaacaaatg ccccaaaaaa caagtaaaaa tataatcacc 60
actgaagcaa aaaaagtaag taaaaacaga agaaaagaca actaaatgta gattattaca 120

<210> 39
<211> 88
<212> DNA
<213> Euphorbia pulcherrima

<400> 39
aacttttttc tttgtataat tatctcatat tttttgtgaa tattcttgaa tgaatagaac 60
acactttata tatgaaaccc actttatac 88

<210> 40
<211> 67
<212> DNA
<213> Euphorbia pulcherrima

<400> 40
atcctttca acaaggacat cgatgaaaag tgattataa atgtggatat gttaaatctag 60
cttagtg 67

<210> 41
<211> 223
<212> DNA
<213> Euphorbia pulcherrima

<400> 41
ccagggataa aatagccatt atgaaagtac cattgaacca tattgctaac atccttgcgg 60
accaggtccc aaaagtgttataaaaaaata ccagtaaagc cgtcaggacc cagcgcacta 120
tcacccttca tcgagaagac tctatttcga atttcatcaa aagaaggctt cctaatgaac 180
tcatcattgt cgctgccgt cacccgatta ggaactgtct gcc 223

<210> 42
<211> 165
<212> DNA
<213> Euphorbia pulcherrima

<400> 42
ctaactggat gcaagaaaatg agcaggcacc gatgaactag caaataaaagg tggcagcatc 60
agaaccacca tcgttaaccac cgtagaaatc gccgcccgtat gaaagccccct gcattcttt 120
caaataacaat ctatacttct tgcatcatga accctacgtt ttctc 165

<210> 43
<211> 106
<212> DNA
<213> Euphorbia pulcherrima

<400> 43
actaatccca tattagatgg gaattggatc gcttgacatg agagatttca aatgaacttt 60
atttccatcc ctagagccga gttcataaaaa tctctcctaa acccat 106

<210> 44
<211> 67
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature
<222> (51)..(51)
<223> "n" represents any nucleotide.

<400> 44
tgcaccattt gcattttcac acaaccattt ataataatat tcatccata ngtttgaggg 60
ttttcg 67

<210> 45
<211> 50
<212> DNA
<213> Euphorbia pulcherrima

<220>
<221> misc_feature

<222>	(23)..(23)					
<223>	"n" represents any nucleotide.					
<220>						
<221>	misc_feature					
<222>	(47)..(47)					
<223>	"n" represents any nucleotide.					
<400>	45					
gttcgtatat	gtaatatac	ctngtaaagt	ttaattacag	aaacatngca	50	
<210>	46					
<211>	64					
<212>	DNA					
<213>	Euphorbia pulcherrima					
<400>	46					
cgtaccagcg	gagacgatgg	cctgaaattt	gagcaccttc	cgttgcatca	gagtttctca	60
gtta						64
<210>	47					
<211>	19					
<212>	DNA					
<213>	Artificial Sequence					
<220>						
<223>	Synthetic Oligonucleotide Primer.					
<400>	47					
gactgcgtac	caattcaag				19	
<210>	48					
<211>	19					
<212>	DNA					
<213>	Artificial Sequence					

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 48
gactgcgtac caattcaca

<210> 49
<211> 19
<212> DNA
<213> Artificial Sequence

19

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 49
gactgcgtac caattcagc

<210> 50
<211> 19
<212> DNA
<213> Artificial Sequence

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<220>
<223> Synthetic Oligonucleotide Primer.
<400> 50
gatgagtcct gagtaacac

<210> 51
<211> 19
<212> DNA
<213> Artificial Sequence

19

<220>
<223> Synthetic Oligonucleotide Primer.
<400> 51
gatgagtcct gagtaacta

<210> 52
<211> 19

19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 52

gatgagtcct gagtaactc

19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 53

gatgagtcct gagtaactg

19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 54

gatgagtcct gagtaactt

19